

EVOLUTION

Motic[®]

MORE THAN MICROSCOPY

BA210E

BA310E

BA310E



BA310E

Motic is committed to the concept of continuously improving its models, especially after carefully looking at the increasing demands of its customers and their applications. The successfully established BA310 model was no exception, and for this reason Motic has launched the new **Elite model BA310E**. Once again Motic has challenged itself to stride ahead of the competition.

The BA310Elite model introduces **superior improvements** both in **optical** and **mechanical performance**. The model now incorporates a **lead-free manufacturing process** in accordance with current **RoHS** standards, and follows the optical features and performance derived from the flagship model BA410. The ELITE model's addition of a new **rackless stage** concept without prominent gear rack allows an even more convenient use of the x/y movement. For full freedom of illumination options, the new model has a complete and **easy interchangeability of its 6V/30W Halogen bulb with LED modules**.



New EC Optics

Motic's new generation of **EC Plan Achromat objectives** sets a new price-performance standard in optical quality. With **excellent spherical aberration correction** to **significantly improve field flatness and resolution**, the EC optics offer **superior colour fidelity** through new multi-layer coated lenses. A lead-free manufacturing process according to **RoHS standard** sets new significant features for these CCIS® objectives, derived from the flagship model BA410. Significantly **increased working distances** of the objectives reduce contamination risk when changing from oil lenses to dry lenses.

Rackless stage

The **new rackless stage** enables a convenient movement of the x/y stage **without prominent gear rack** interference; while a **new specimen holder** design gives a soft but solid grip to the glass slides. These new mechanical improvements greatly enhance user safety in educational environments of schools and Universities. An optional 2-slide holder is also available when large throughputs of samples are required.

Halogen/LED interchangeability

The importance of LEDs as safe and long-term illumination devices has increasingly become the norm in educational and clinical microscopy environments. Nevertheless, experienced users may still prefer the “warm” Halogen illumination with a large portion of long wavelengths. To cover this situation, Motic has implemented a **full interchangeability between its Halogen and LED light sources**. Coming with a standard 6V/30W Halogen bulb, the BA310Elite lamp socket also accepts a new LED module, which can be inserted instead of the Halogen bulb. **The choice of (2) different color temperatures (4500K, 6000K)** enhances illumination options in a user-friendly way.



Description	N.A.	W.D.(mm)
EC Plan 4X	0.10	15.90
EC Plan 10X	0.25	17.40
EC Plan 20X	0.45	0.90
EC Plan 40X	0.65	0.50
EC Plan 60X	0.80	0.35
EC Plan 100X - Oil	1.25	0.15



BA310E General Specifications

Model	BA310 ELITE
Optical System	Color Corrected Infinity Optical System [CCIS®]
Observation Tube	Widefield binocular 30° [F.N.20] Widefield trinocular 30° [F.N.20] - light distribution 100:0/20:80 Widefield trinocular 30° [F.N.20] - light distribution 100:0/0:100
Interpupillary distance	48-75mm
Nosepiece	Reversed quintuple
Objectives	CCIS® EC Plan 4X, 10X, 20X (optional), 40X, 60X (optional) and 100X-Oil
Rackless Stage	180 x 170 mm surface, 80 x 55mm movement, coaxial controls
Condenser	N.A. 0.9/1.25 Abbe condenser with slider slot
Focusing Block	Brass gears. Z-Axis movement with 25mm stroke; Fine focus with 2µm minimum increments, coarse focus with torque adjustment. Stage lock for high samples, free definable
Illumination	Built-in transmitted 6V/30W Halogen Koehler illumination or 3W LED Koehler illumination (6000K & 4500K)

